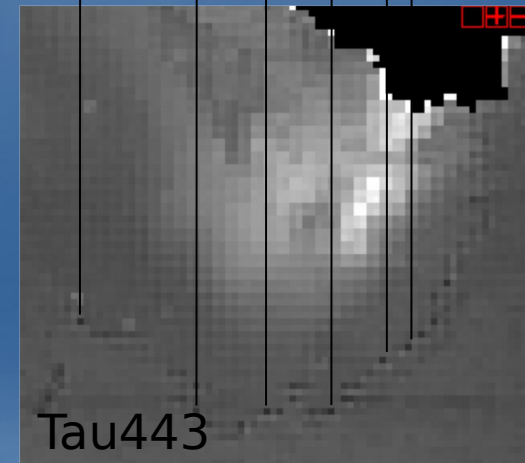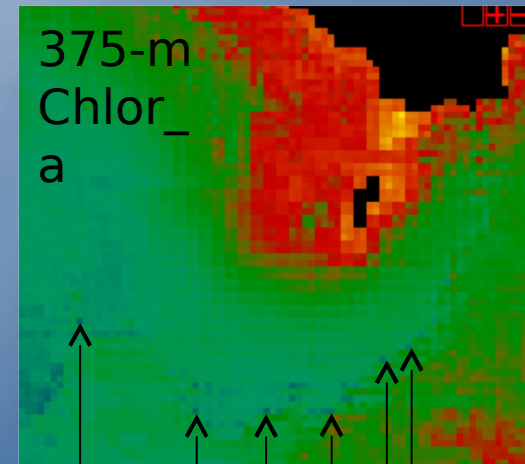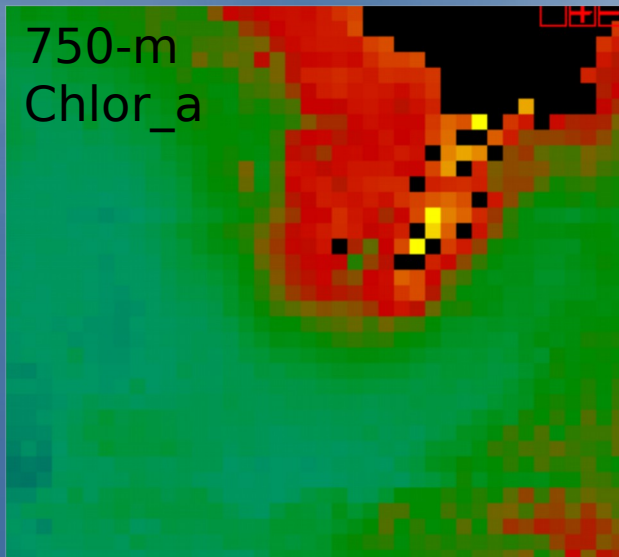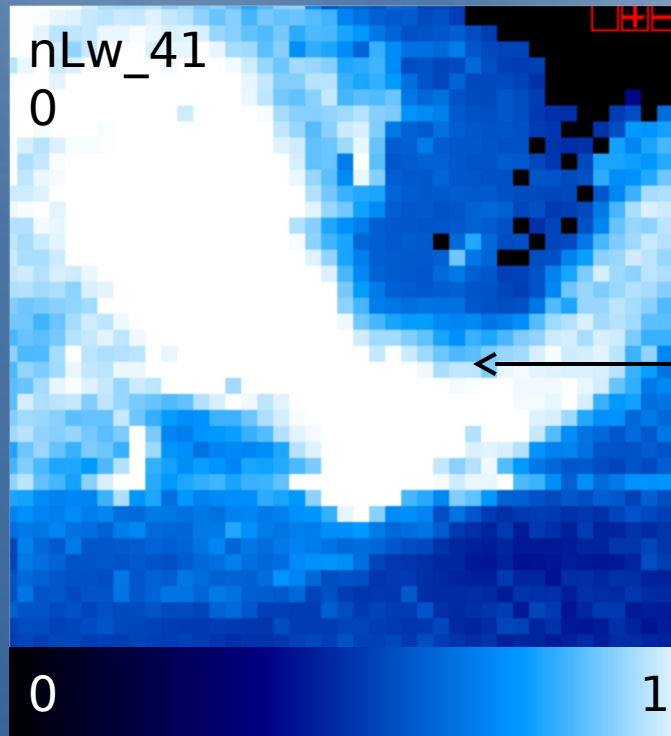# Summary of experiments

- Control: NIR iteration, 750 m spectrum
- Test 1: NIR iteration, 375 m spectrum
- Test 2: NIR iteration, 375 m spectrum (*not* M5)
- Test 3: aer_opt=-1, NIR channels only
- Test 4: aer_opt=-1, SWIR channels only
- Test 5: aer_opt=-9, NIR and SWIR switch
- Test 6: aer_opt=-43, use SWIR to estimate NIR
- Test 7: aer_opt=32, choose one atm. model
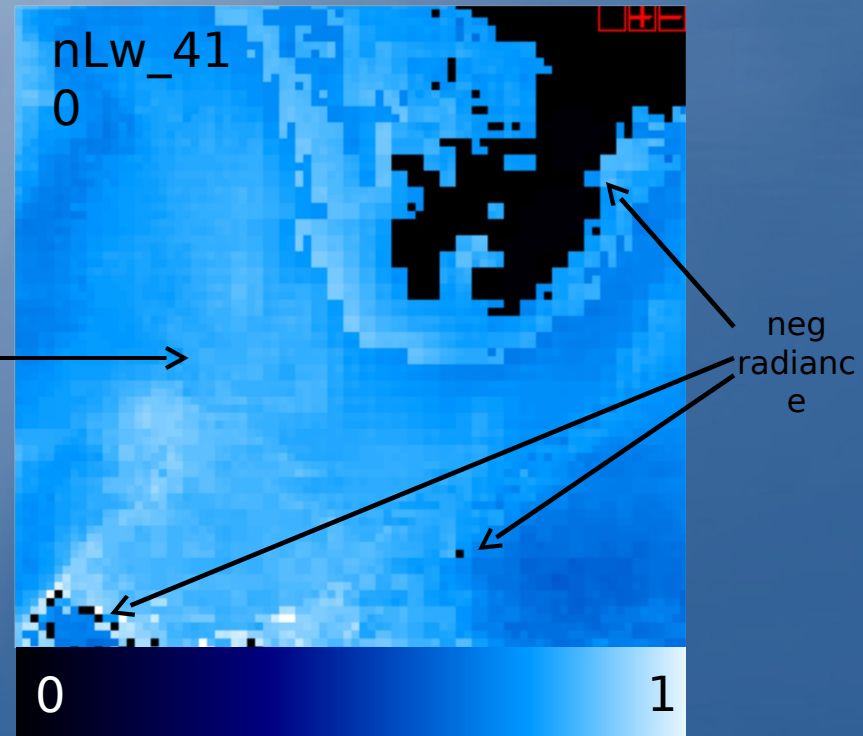
NIR iteration, 375 m spectrum

750-m Chlor_a

375-m Chlor_a

Noise created when M6 is adjusted by M5# through iteration. Transmitted to rest of spectrum through epsilon term.

Tau443

aer_opt=32

750-m
aer_opt=-3

375-m
aer_opt=32

Summary of problems

- Test 1: Sharp M5 introduces variability into epsilon (see slide 3 for details)
- Test 2: Epsilon stable, chl is sharp, but QAA at low resolution, 640 substitution problematic
- Test 3: Negative radiance in coastal region
- Test 4: Very noisy, missing data values (smoothing SWIR channels did not help substantially)
- Test 5: Switch to NIR appears to use iteration, same problems as test 1
- Test 6: Very noisy, missing data values
- Test 7: Vastly different spectrum, negative radiances close to coastal waters